



**CERCLIS ID#:** OKD007221831

**Alias Site Name:** NA

**Address: 10 TantalumPlace**

City/County or Parish/State/Zip: Muskogee, Muskogee County, Oklahoma

**Author:** START-Weston

**RECOMMENDATION:**

- ☐ 1. No Further Remedial Action Planned Under Superfund (NFRAP)
- ☒ 2. Further Investigation Needed Under Superfund
- ☐ PA ☐ HRS ☐ Priority: ☐ High
- ☐ SI ☐ RI/FS ☐ Low
- ☒ ESI ☐ RA
- ☐ Other: \_\_\_\_\_
- To be performed by: START/EPA/ODEQ
- ☐ 3. Action Deferred to: ☐ RCRA ☐ NRC
- ☐ 4. Site Being Addressed Under the State Voluntary Cleanup Program (VCP): ☐ Yes ☐ No

**NOTIFY AUTHORITY:**

- |  |   |                                |   |  |
|--|---|--------------------------------|---|--|
| <input checked="" type="checkbox"/> Removal  | <input type="checkbox"/> RCRA                   | <input type="checkbox"/> TSCA  | <input type="checkbox"/> CAA            | <input type="checkbox"/> SMCRA                   |
| <input checked="" type="checkbox"/> Remedial | <input checked="" type="checkbox"/> State/Tribe | <input type="checkbox"/> NPDES | <input checked="" type="checkbox"/> NRC | <input type="checkbox"/> Resource Trustee: _____ |
| <input checked="" type="checkbox"/> CERCLA   | <input type="checkbox"/> Federal                | <input type="checkbox"/> UIC   | <input type="checkbox"/> SPCC           | <input type="checkbox"/> Other: _____            |
| Enforcement                                  | Facility  |                                |   |  |

SEND SSSR COPIES TO: ☐ 6SF-AC ☐ 6WQ-SP ☐ ATSDR ☒ State Agency ☐ Tribal Agency

**DISCUSSION:**

The Fansteel Metals Site (the Site) is located at 10 Tantalum Place, Muskogee, Oklahoma, on the west bank of the Arkansas River. The Fansteel Metals/FMRI site is a former metal processing facility which produced tantalum and columbium metal products from 1956 to 1990. The raw material (ore) used for tantalum and columbium production contained uranium and thorium as naturally occurring trace constituents. The ore and slag contained trace amounts of radioactive uranium and thorium, enough to be considered "source material" by the Nuclear Regulatory Commission (NRC). Most of the Site is subject to an NRC license and decommissioning plan. Only a portion of the site has been decommissioned. A 4,000-foot trench currently captures impacted groundwater which is treated onsite prior to discharge into the Arkansas River. The NRC stated that approximately \$78 million (2016 estimate) of site decommission work remains.

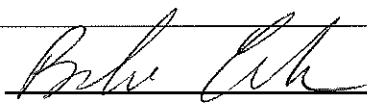
Radioactive and non-radioactive contamination remains in the groundwater at the Site, in waste pond sludge, as contaminated soil, and as contamination in buildings and equipment. Currently the ground water treatment system is being maintained by FMRI, once bankruptcy funds are expended, FMRI will no longer operate the system. Without funding the groundwater and surface water will no longer be collected and treated in accordance with NRC License and Oklahoma Permit. Surface water would likely overflow from ponds and untreated groundwater would contaminate the Arkansas River.

At the request of the Oklahoma Department Of Environmental Quality (ODEQ) EPA is currently conducting an Expanded Site Investigation at the Site to determine if the site meets the minimum criteria required to be included, or proposed, on the

NPL by the EPA. The NPL is EPA's list of sites that are priorities for further investigation and, if necessary, response action under CERCLA, 42 DSC 960001 et seq. EPA has coordinated with ODEQ, the Cherokee and Muskogee Creek Nation and the NRC in preparing this workplan. On-site source, ground water, surface water and sediment samples are needed to determine this sites' eligibility for the NPL; therefore this workplan is approved as written to further characterize this site.

**APPROVALS:**

Report Reviewed by: Brenda Cook  
(Site Assessment Manager)

Signature: 

Date: 03/08/2019

Disposition  
Approved by: Chris Villarreal  
(Section Chief 6SF-TR)

Signature: 

Date: 3/8/2019